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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/750,111		12/29/2000	Wendell P. Noble JR.	M4065.0019/P019-A 6297 EXAMINER	
24998	7590	11/17/2004			
		IRO MORIN & O	ROSE, KIESHA L		
	L Street, NW art unit		PAPER NUMBER		
3	, – - –			2822	

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/750,111	NOBLE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kiesha L. Rose	2822	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) days, for NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the learned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a ron. In. In reply within the statutory minimum of thirt eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	·		
2a) This action is FINAL . 2b) ⊠	This action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice und	•	•	
Disposition of Claims			
4) ☐ Claim(s) is/are pending in the appli 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 1-5,7-20,23-27 and 55 is/are allow 6) ☐ Claim(s) 28 is/are rejected. 7) ☐ Claim(s) 29-33 is/are objected to. 8) ☐ Claim(s) are subject to restriction and subject to restriction	ndrawn from consideration. wed.		
Application Papers			
9) The specification is objected to by the Exa	miner.		
10) The drawing(s) filed on is/are: a)	accepted or b)☐ objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the control of the control	,	, ,	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)	□	(070.4%)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date		formal Patent Application (PTO-152)	

Application/Control Number: 09/750,111

Art Unit: 2822

DETAILED ACTION

This Office Action is in response to the arguments filed 11 August 2004.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kitagawa (U.S. Patent 5,329,142) and further in view of Shirley (US Publication 2004/0062110).

Kitagawa discloses a semiconductor device (Figs. 2,6,7 and 27) that contains a memory cell with two gated complementary vertical bipolar transistors that are p-n-p and n-p-n transistors (Q) where the collector region of the p-n-p is connected to the base region of the n-p-n where the transistors have states for storing information.

Kitagawa discloses all the limitations except for a computer system with a processor connected to the memory circuit. Whereas Shirley discloses a SRAM (Fig. 5) that contains a computer system with a processor (104) connected to the memory circuit (408). The computer system is added to process the stored information of the memory cells. (Page 4. Paragraph 30/31) Therefore it would have been obvious to one having

ordinary skill in the art at the time the invention was made to incorporate a computer system to process the stored information of the memory cells as taught by Shirley.

Allowable Subject Matter

Claims 1-5,7-20,23-27 and 55 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-5,7-20 and 23-27 are allowable because prior art does not show alone or in combination along with the limitations of the independent claims such as, the first and second gates being connected to the first vertical side and second vertical side of the vertically stacked bipolar transistors (spanning central n-region of p-n-p transistor and p-region on n-p-n transistor).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 29-33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claim 1-5,7-20,23-33 and 55 have been considered but are most in view of the new ground(s) of rejection.

Application/Control Number: 09/750,111

Art Unit: 2822

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiesha L. Rose whose telephone number is 571-272-1844. The examiner can normally be reached on M-F 8:30-6:00 off 2nd Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KLR

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